ENGLISH

Matrox solutions for medical imaging

Matrox **AuroraVX3mp**

User Guide

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www.matrox.com/graphics

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Graphics for Professionals

Contents

Overview 3
- Hardware supplied 3
- Software supplied (for Windows XP) 3
- Installation overview 4

Hardware installation 5
- Replacing brackets on a low-profile graphics card 7

Connection setup 8
- Step-by-step connection setup 8

Display setup 10
- Accessing PowerDesk 10
- Monitor setup 10
- Portrait monitor setup 11
- Multi-display setup 11

Software setup 12

Product information 13

Troubleshooting 16
- Basic procedures 16
- Main troubleshooting 16
- Extra troubleshooting 20

Warranty 28

Software license agreement 30

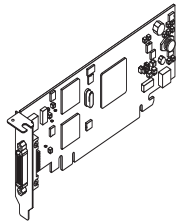
Index 31

More information 36

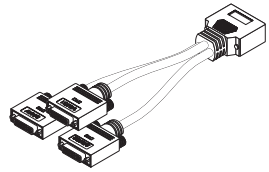
Overview

Your Matrox AuroraVX3mp product is designed to use up to 3 displays at a time – 1 analog Navigation Console and 2 digital Twin Imaging Displays. With its high image quality, sharp grayscale and color output, and multi-display support, this product can be used for a range of medical applications, including PACS (Picture Archiving and Communication Systems), X-ray imaging, MRI (Magnetic Resonance Imaging), CT (Computed Tomography), and digital radiography.

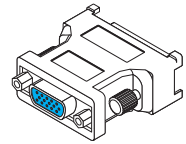
Hardware supplied



Matrox card



Triple-monitor cable



1 DVI-to-HD15 adapter *

* For more information, see page 8.

Software supplied (for Windows XP)

- **Matrox PowerDesk-SE** – to use your Matrox product
- **Other software** – see the CD-ROM *Readme* file

Installation overview

Note: If your Matrox product is already partially or fully installed on your computer, some or all the installation information in this guide may not apply to you. However, this information may be useful if you need to reinstall your Matrox product.

To install your Matrox product:

1. Install the Matrox card – see "Hardware installation", page 5.
2. Connect your monitors – see "Connection setup", page 8.
3. Install the software – see "Software setup", page 12.
4. Set up the software – see "Display setup", page 10.

Hardware installation

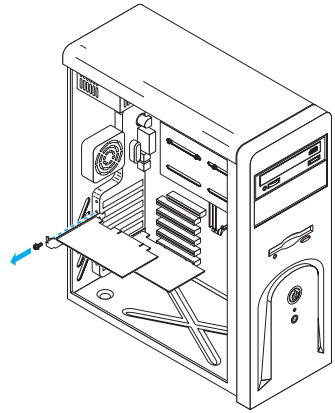
This section describes how to install your Matrox card. If your Matrox card is already installed in your computer, skip to "Connection setup", page 8. For information specific to your computer, like how to remove its cover, see your system manual.

WARNING: To avoid personal injury, turn off your computer, unplug it, and then wait for it to cool before you touch any of its internal parts. Also, static electricity can severely damage electronic parts. Before touching any electronic parts, drain static electricity from your body (for example, by touching the metal frame of your computer). When handling a card, carefully hold it by its edges and avoid touching its circuitry.

Note: Most Matrox low-profile graphics cards ship with ATX brackets compatible with most systems. If you have a low-profile system, you may need to change the standard bracket on your graphics card to a low-profile bracket. For more information, see "Replacing brackets on a low-profile graphics card", page 7.

1 Open your computer and remove your existing graphics card *

If a graphics card ***isn't*** already installed in your computer, skip to step 2.



a Using **Add/Remove Programs** in the Windows **Control Panel**, remove any currently installed display drivers. Restart your computer for the changes to take effect.

After your computer restarts, you're prompted to install drivers for the new graphics hardware detected. Click **Cancel**.

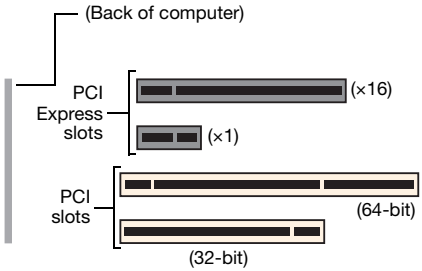
b Turn off your computer and all peripherals such as your monitor or printer.

c Open the computer and remove your existing graphics card (if any). (If graphics hardware is built into the motherboard of your computer, this graphics hardware should automatically disable itself after your Matrox card is installed. For more information, see your system manual.)

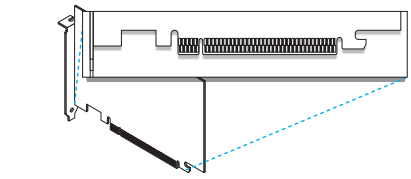
* With multi-display mode, you may be able to use your existing graphics card. For Windows XP, see Windows XP online help under "Install additional monitors".

2 Choose an expansion slot

Most computers have different types of expansion slots. Choose a PCI Express ×16 (PCIe) slot for your Matrox card. Your system manual should identify the location of each type of expansion slot in your computer.



WARNING: Inserting your Matrox card into the wrong type of slot could damage your card, your computer, or both.

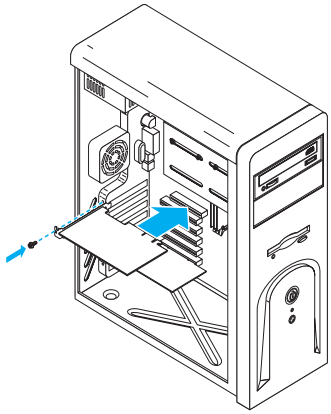

PCI Express ×16 card

3 Insert your Matrox card

a Position your Matrox card over the expansion slot you've chosen.

b Push the card in firmly and evenly until it's fully seated in the slot.

c Secure the bracket of your Matrox card to the computer frame.



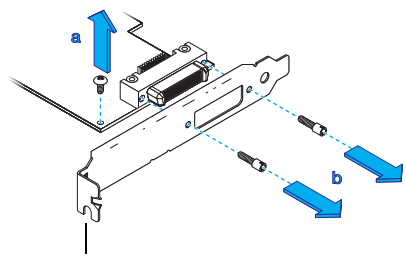
Your Matrox card is now installed. ***Before restarting your computer,*** connect your monitor or monitors (see "Connection setup", page 8). ***After connecting,*** restart your computer and install your Matrox software (see "Software setup", page 12).

WARNING: If your computer doesn't restart after your Matrox card is installed, turn off your computer to avoid damaging electronic parts. For troubleshooting information, see page 13.

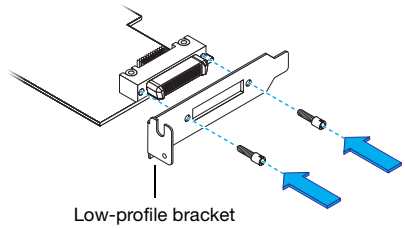
Replacing brackets on a low-profile graphics card

Most Matrox low-profile graphics cards ship with ATX brackets compatible with most systems. The following explains how to change brackets on your Matrox product.

1. Remove the current bracket from your Matrox graphics card by removing the screw (**a**) on top of the graphics card, then the nuts (**b**) on either side of the monitor connector.



2. Attach and fasten the new bracket with the two nuts you just removed.



Connection setup

This section describes how to connect monitors to your Matrox product.

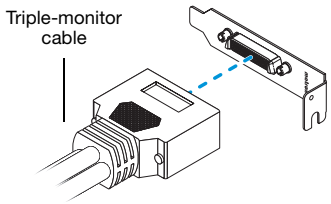
WARNING: Don't change monitor connections while your computer is turned on. While your computer is turned on, it may be using monitor settings that are specific to the current monitor connections. ***Some*** devices may be permanently damaged if incorrect settings are used.

Note: Whenever you change your connection setup, make sure you're using the correct connectors and that all connectors are properly fastened.

Step-by-step connection setup

1 Attach the triple-monitor cable

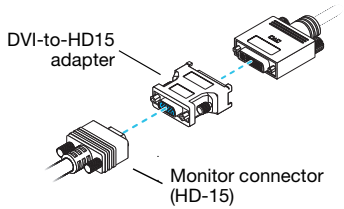
Attach your Matrox triple-monitor cable to the connector on the bracket of your Matrox card. Make sure the connectors are properly fastened.



2 Connect the navigation console

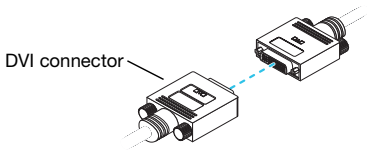
Your navigation console must use an HD-15 connector.

Connect your navigation console to the DVI connector labeled **3/NAV** of your triple-monitor cable using the DVI-to-HD15 adapter included with your product.



3 Connect the first imaging display

Connect your first imaging display to the DVI connector labeled **1/IMG1** of the triple-monitor cable.



4 Connect the second imaging display

Connect your second imaging display to the DVI connector labeled **2/IMG2** of the triple-monitor cable.

Your Matrox card is now installed. Restart your computer and install your Matrox software (see "Software setup", page 12).

Display setup

Windows XP – Your Matrox display driver includes Matrox PowerDesk software. This software helps you get the most out of your Matrox card. This section has important information on how to configure your display settings using Matrox PowerDesk software.

Accessing PowerDesk

Many display controls are available through Matrox PowerDesk. To access PowerDesk features, click the **Matrox PowerDesk** icon ( ) on your Windows taskbar. To see the PowerDesk icon in Windows XP, you may need to click the **Show hidden icons** button ( ) on your Windows taskbar.

Note: Multi-display mode is supported under Windows XP. For more information on multi-display mode, see Windows XP online help under "Multiple Display support".

Monitor setup

Before changing your display resolution, color palette, or other Matrox PowerDesk settings, make sure correct software monitor settings are selected. If you have a Plug-and-Play (DDC) monitor, correct settings are usually automatically selected. The following explains how to make sure your monitor settings are okay.

WARNING: If incorrect software monitor settings are applied, ***some*** monitors can be permanently damaged. For more information, see your monitor manual.

If you have a Plug-and-Play (DDC) monitor, Windows should automatically use correct settings for your monitor. To make sure the correct monitor is selected in Windows:

1. Right-click your Windows desktop background, then click **Properties → Settings → Advanced → Monitor**. If you're using a multi-display desktop, select a display before clicking **Advanced**.
2. If the monitor name listed isn't **Plug-and-Play** and doesn't match your monitor, click **Properties → Driver → Update driver**. Follow the on-screen instructions.
3. If you're using a multi-display desktop, repeat steps 1–2 for each display in your Windows desktop.

For more information on Windows monitor settings, see Windows documentation.

Portrait monitor setup

Most standard monitors are *landscape* monitors – that is, they're wider than tall. *Portrait* monitors are taller than wide. Different models of portrait monitors may have different types of support for this orientation.

Some portrait monitors support portrait mode by rotating the monitor signal and reporting support for portrait display resolutions to the graphics hardware. For most monitors, the display resolutions supported are automatically detected and used by the Matrox display driver.

If your monitor supports ***both*** portrait and landscape orientations, it may have one connector for landscape mode and one for portrait mode. Which connector you use determines whether portrait or landscape mode is used. For more information, see your monitor documentation. Before changing your connection setup, always shut down your computer.

Some portrait monitors are merely landscape monitors physically rotated 90 degrees. These monitors don't rotate the monitor signal and don't report support for portrait resolutions. In this case, use Matrox software to rotate the display to match the monitor orientation.

To rotate your display with Matrox software:

1. From the main menu of PowerDesk (see "Accessing PowerDesk", page 10), select **Multi-Display Setup**.
2. Select the appropriate device, then select the display you want to configure.
3. Next to **Display Rotation**, select the degree of rotation for your display.
4. Click **OK** or **Apply** for your changes to take effect.

Multi-display setup

To set up multi-display mode:

1. From the main menu of PowerDesk (see "Accessing PowerDesk", page 10), select **Multi-Display Setup**.
2. Select the appropriate device, then select the multi-display setup you want to use.
3. Click **OK** or **Apply** for your changes to take effect.

For more information on Matrox PowerDesk, click **Help** from the main menu of PowerDesk (see "Accessing PowerDesk", page 10).

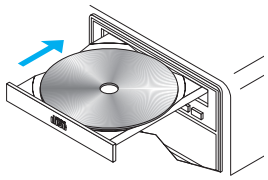
Software setup

Note: This guide has references that are specific to the Matrox installation CD-ROM. If your Matrox product wasn't packaged by Matrox (for example, if it was included with your computer), your product may not include this CD-ROM.

If you don't have this CD-ROM, certain references in this guide may not reflect the software you have. For more information, see other software documentation provided by your system vendor.

This section describes how to install Matrox software for *Windows XP*.

You may need administrator rights to install certain software. For more information, see Windows documentation or contact your system administrator.



1 Install display driver

Insert the installation CD-ROM in your CD-ROM drive – the CD-ROM installation program automatically starts. Follow the on-screen instructions.

2 Install optional software

After your computer restarts, the setup program shows you a list of additional items you can install. For each item you want to install, select a list item, click **Install**, then follow the on-screen instructions.

3 Set up your display software

See "Display setup", page 10.

Troubleshooting

Basic procedures

This section explains basic procedures that are referred to by some troubleshooting items in this guide.

W Restarting in VGA mode

Windows XP – What follows is information on how to restart your computer in *VGA mode*.

1. Click **Start** → **Shut Down** → **Restart** → **OK*** to restart your computer. (* Depending on your version and configuration of Windows, this part of the step may not be necessary.)

   If your primary monitor is unusable, see your system manual for information on how to restart your computer using a hardware control.

2. ***Before*** Windows starts, press [F8] for the Windows startup menu to appear. (If [F8] doesn't work, instead try pressing and holding [Ctrl] before Windows starts.)

3. Select "VGA mode", then press [Enter].

Main troubleshooting

This section addresses possible problems that could prevent you from using your computer.

Problem **Computer doesn't display information or boot after Matrox card is installed**

Cause Your Matrox card may not be properly installed.

Solution Make sure your Matrox card is properly installed. Specifically, make sure the card is firmly inserted in its expansion slot and that all connections to it are firmly in place. For more information, see "Hardware installation", page 5.

Cause There may be unsupported graphics hardware in your computer.

Solution If an unsupported graphics card is plugged into an expansion slot, remove it.

Solution If graphics hardware is built into your computer motherboard, your system may not have automatically disabled it when you inserted your Matrox card. Check your system manual for instructions on how to disable your computer's built-in graphics hardware.

Cause Your computer BIOS (Basic Input/Output System) settings may be incorrect.

Solution Change your BIOS settings, specifically the *AGP aperture size*. For more information on your computer BIOS, see your system manual.

Cause Your computer BIOS may not be up to date. For more information on your computer BIOS, see your system manual.

Solution Reinstall your previous graphics card and, if possible, update your computer BIOS. This can usually be done with software from the manufacturer of your computer. Contact your system vendor or manufacturer to get a BIOS update for your computer.

To get the correct BIOS update, you may need to know the serial number your computer displays when it restarts. (This number is usually in the lower-left corner of the display.)

Cause The BIOS of your Matrox card may need to be updated or restored.

Solution **Windows XP – For advanced users** – If you have another VGA-compatible graphics card, you can try resetting the BIOS of your Matrox card.

1. Turn off your computer and insert the other graphics card into an expansion slot. For more information on expansion slots, see "Choose an expansion slot", page 6.
2. Plug your monitor into the other graphics card and restart your computer.

Note: Make sure your computer uses the other graphics card to control your primary display. The graphics card that controls your primary display is the one that first displays information when you restart your computer.

Your computer BIOS (Basic Input/Output System) and the slot type (see "Choose an expansion slot", page 6) of each graphics card help determine which graphics card controls your primary display.

To control which graphics card is used for your primary display, you may be able to change the configuration of your computer BIOS. For information on how to change your computer BIOS settings, see your system manual.

3. Insert your Matrox installation CD-ROM.
4. Click **Start** → **Run**, type *d:\SysUtils*. You will need to use the **PBIOSWin** program to update the BIOS of your Matrox card. For more information on how to use this program, see the *Readme* file in the *Sysutils* folder.
5. Turn off your computer, remove the other graphics card, then plug your monitor into your Matrox card.
6. Restart your computer.

Cause The power supply of your computer may not be powerful enough for all the devices on your computer.

Solution **For advanced users** – Remove unnecessary devices from your computer (for example, an unused network card or an extra CD-ROM drive). For more information, see your system manual or the documentation for each device.

Solution You may be able to upgrade the power supply of your computer. We recommend a power supply of 300 Watts or more. For more information, contact your computer vendor.

Problem Wrong color balance, screen image off-center, or no picture at all

Cause Your monitor video controls may be improperly set.

Solution Adjust your monitor controls (brightness, contrast, and so on). For more information, see your monitor manual.

Cause Your monitor may not be properly connected.

Solution Make sure you're using the correct connectors (see "Connection setup", page 8) and that all connectors are properly fastened.

Solution Make sure the monitor power cable is firmly in place.

Solution Make sure the connection to the back of the monitor is firmly in place.

Cause If display problems occur after the startup screen of your operating system, your software monitor settings may be incorrect.

Solution Make sure correct software monitor settings are selected.

W If your primary display is still usable, see "Monitor setup", page 10. Otherwise, see the next troubleshooting item.

Cause Your monitor may not be properly calibrated.

Solution Make sure your monitor is calibrated for the gray palette you're using.

Problem **After the startup screen, or after display settings are changed, the screen image is garbled or unusable**
(blank screen, rolling or overlapping screen images)

Cause The Matrox display driver may be trying to use settings your monitor doesn't support. This can happen if a monitor was never selected in the software and the display resolution was changed to one your monitor doesn't support, or if the monitor connected to your computer was changed without changing it in the software.

WARNING: If incorrect software monitor settings are applied, ***some*** monitors can be permanently damaged. For more information, see your monitor manual.

Solution

Windows XP –

1. If your primary display is unusable, restart your computer in VGA mode (see "Restarting in VGA mode", page 16).
2. Right-click the Windows desktop background, then click **Properties** → **Settings**.
3. Move the **Screen resolution** (Windows XP) slider down to its lowest setting, then click **OK**.
4. Restart your computer normally.
5. Make sure the correct monitor is selected in Windows (see "Monitor setup", page 10).
6. Restore your original display settings (see steps 2 and 3).

Cause Files on your system may have been deleted or corrupted.

Solution Remove, then restore Matrox software:

Note: Before removing software, make sure you have all the necessary files to reinstall software that may still be needed. Also, make sure the display driver you reinstall supports ***all*** Matrox products in your computer.

Note: **Windows XP** – You may need administrator rights to remove certain software. For more information, see Windows documentation.

Windows XP –

1. If your primary display is unusable, restart your computer in VGA mode (see "Restarting in VGA mode", page 16).

2 To remove Matrox software:

   a Click **Start → Settings*** **→ Control Panel → Add/Remove Programs** (double-click*) **→ Matrox PowerDesk-SE → Change/Remove → Yes**. (* Depending on your version and configuration of Windows, this part of the step may not be necessary.)

   b Click **Matrox Driver → Change/Remove → Yes**.

3 Restart your computer.

4 After your computer has restarted, install the latest display driver for your Matrox card. You may also need to reinstall other Matrox software.

Extra troubleshooting

The following are extra troubleshooting items related to graphics hardware.

Problem Can't select one or more display resolutions supported by your monitor

Cause **Windows XP** – Windows may be disabling display resolutions that it can't detect as supported by your monitor.

Solution Install the latest monitor software from your monitor manufacturer.

Solution Change Windows monitor settings:

1 Right-click your Windows desktop background, then click **Properties → Settings**.

2 If you're using a multi-display desktop, select a display.

3 Click **Advanced → Monitor**, disable **Hide modes that this monitor cannot display**, then click **OK → OK**.

Problem Can't use Windows, Windows reports a configuration error, and/or can't install or uninstall Matrox display driver

> Note: **Windows XP** – You may need administrator rights to install certain software. For more information, see Windows documentation.

Cause The problem may be specific to the motherboard in your computer.

Solution There may be a software update available for your motherboard. To find out what motherboard model your computer is using, see your system manual. For more information, contact the maker of your motherboard or computer. Many motherboard or computer manufacturers have software updates available on their Web site.

Cause Files on your system may have been deleted or corrupted.

Solution Remove, then restore Matrox software. For more information, see page 19.

Problem Monitor settings aren't automatically detected

WARNING: If incorrect software monitor settings are used, your display may become unusable and ***some*** monitors can be permanently damaged. For more information, see your monitor manual.

Note: **Windows XP** – To check if your monitor settings are properly selected:

1. Right-click your Windows desktop background, then click **Properties** → **Settings** → **Advanced** → **Monitor**. If you're using multi-display mode, select a display before clicking **Advanced**.
2. If you see the name of your monitor or "Plug-and-Play", your monitor settings are properly selected.

   If you see the wrong monitor name or **Default monitor**, your monitor settings aren't properly selected.

Cause Your monitor may not be Plug-and-Play. Most new monitors are Plug-and-Play but many older ones aren't. Software can't automatically detect settings for monitors that aren't Plug-and-Play.

Solution Manually select your monitor settings in the software. For more information, see "Monitor setup", page 10.

Cause If a monitor was changed or added while Windows was running, the new monitor may not be detected by the software.

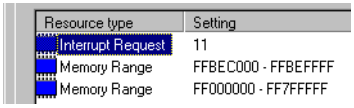
Solution Restart your computer. If your monitor is a Plug-and-Play monitor, it should be automatically detected by the software.

Problem 3D and video programs don't work

Cause Your computer may not have given an IRQ (interrupt request) to your Matrox graphics card or may have given one used by another device in your computer. This may be because your computer's "Plug-and-Play" feature is turned off.

Windows XP – To check the display adapter's IRQ:

1. Click **Start** → **Settings*** → **Control Panel** → **Performance and Maintenance*** → **System** (double-click*) → **Hardware** → **Device Manager**. (* Depending on your version and configuration of Windows, this part of the step may not be necessary.)
2. Click the plus sign to the left of the **Display adapters**. An "**X**" through an icon means the hardware has been disabled. A circled exclamation point through the icon means the hardware has a problem.
3. Double-click the name of your Matrox display adapter to open a properties dialog box. The type of problem is displayed in the **General** tab → **Device status** area. Check also the **Resources** tab → **Resource type** list for an **Interrupt Request**.



Solution Change settings in your computer BIOS setup utility.

If your computer has the options of enabling Plug-and-Play detection, or assigning an IRQ to a VGA adapter, make sure they're enabled. If your computer doesn't have these options, you may be able to manually assign an IRQ to your Matrox card using the BIOS setup utility.

For more information on the BIOS setup utility of your computer, see your system manual or contact your system manufacturer.

Cause Your computer's other BIOS settings may be incorrect.

Solution Reset your computer BIOS settings to the factory defaults using your computer's built-in BIOS setup utility. The factory defaults are usually the "safest" settings. Check your system manual for more information.

Problem W — Using multiple displays under Windows XP, program doesn't work with main graphics card

Cause Your main graphics card may not be controlling your primary display. The graphics card that controls your primary display is the one that first displays information when you restart your computer.

A program that doesn't recognize multiple displays may not work with a graphics card unless it's controlling your primary display.

Your computer BIOS (Basic Input/Output System) and the slot type (see "Choose an expansion slot", page 6) of each graphics card help determine which graphics card controls your primary display.

Solution If you're having problems with a program that can be moved on your Windows desktop, run this program on your primary display. Make sure the program window doesn't overlap any other display. If the program doesn't work with the graphics card controlling your primary display, or you want your main graphics card to control your primary display, see the other solutions.

Solution Change the configuration of your computer BIOS so that the slot type of your main graphics card has priority for becoming the primary display. For information on how to change your computer BIOS settings, see your system manual.

If your computer BIOS doesn't let you select which slot type has priority for becoming the primary display, a BIOS update may be available to let you do this. (The BIOS of most computers can be updated with software.) For a possible BIOS update for your computer, contact your system vendor.

Solution If there's a graphics controller built into the motherboard of your computer, by changing your computer BIOS settings, you may be able to change which device controls your primary display. For more information, see your system manual.

Solution If you don't need to use the graphics card that's controlling your primary display, remove it from your computer. If your primary display is controlled by the motherboard of your computer, see your system manual for information on how to disable this graphics controller.

Cause The program you're using may not work properly with systems using more than one display at a time.

Solution An update may be available for the program you're using. This update may fix problems this program has with multi-display systems. For more information, contact the software distributor for the program you're using.

Solution If you're using multiple displays in *independent* mode, try using *stretched* mode instead. Programs that don't work in independent mode may work in stretched mode. For more information, see Matrox PowerDesk help.

Solution

Windows XP – For advanced users – To use a program that doesn't support multi-display systems, you can disable all displays other than your primary display:

1. Restart your computer in VGA mode (see "Restarting in VGA mode", page 16).
2. Click **Start** → **Settings*** → **Control Panel** → **Performance and Maintenance*** → **System** (double-click*) → **Hardware** → **Device Manager**. (* Depending on your version and configuration of Windows, this part of the step may not be necessary.)
3. Click the plus sign to the left of the **Display adapters**.
4. For each display adapter, ***except*** for the one controlling your primary display, right-click the name of a display adapter, then click **Disable** → **Yes**.

> **Note:** Your primary display can't be disabled.

5. Restart your computer for changes to take effect.

> **Note:** To restore display adapters, repeat steps 2–4, but click **Enable** in step 4.

Problem W — Not all graphics cards in the computer are fully supported (Software doesn't work with a certain graphics card, or another graphics card doesn't work at all)

Cause

If you have different models of graphics cards in your computer, your Matrox display driver may not support all the graphics cards in your computer.

Solution

Under Windows XP, a display driver may support one or more graphics cards. If a display driver doesn't support a certain card, a different display driver must be used for that card. Software that depends on a certain display driver may not work with a graphics card that's not using the same display driver.

> **Note:** If your Matrox product was provided by the manufacturer of your computer, check the Web site of that manufacturer for the latest display driver. A display driver provided by the manufacturer of your computer is more likely to be tested with your computer model.

Solution

If a graphics card isn't supported, you may need to remove it. If there's graphics hardware built into the motherboard of your computer that's not supported by your software, see your system manual for information on how to disable this graphics hardware.

Cause **Windows XP** – If the Windows method for display driver installation was used (instead of running the setup program included with your Matrox display driver), the driver may not be installed for all the graphics cards it supports.

Solution Run the setup program included with the Matrox display driver. The setup program automatically installs the display driver for each Matrox graphics card it supports.

Problem W Screen image defects appear, program doesn't run properly, or Windows doesn't work properly

(example: mouse pointer not drawn properly)

Cause Some programs may not work properly with some Matrox acceleration.

Solution **Windows XP** – Disable Windows effects:

1. Right-click your Windows desktop background, then click **Properties** → **Appearance** → **Effects**.
2. Disable one or more features.

Solution If possible, update your Matrox display driver. For more information, contact the computer or monitor vendor who provided your Matrox card.

Solution **Windows XP** – Disable Matrox hardware acceleration:

1. Right click your Windows desktop background, then click **Properties** → **Settings** → **Advanced** → **Troubleshooting** (or **Troubleshoot**).
2. Move the **Hardware acceleration** slider to **None**.
3. Click **OK** → **OK** to accept the changes.

Problem Program window or dialog box doesn't appear on screen

Cause Another window or dialog box may be covering the window or dialog box you want to see.

Solution Move, close, or minimize any window or dialog box that may be covering the window or dialog box you want to see.

Cause If you're using multi-display mode, the program window or dialog box may be in a display or on a monitor that's unusable. (For example, your monitor may not be properly connected or configured.)

Solution Make sure all the displays and monitors you want to use are usable. For more information, see other troubleshooting items in this guide.

Cause The software may be using a display you didn't intend to use or the software may be configured to use more displays than the actual number of monitors you have. (For example, you may be in DualHead Multi-Display mode but you only have one monitor.)

Solution Disable the display:

Windows* XP –

(* Only while using multiple displays in *independent* mode. For more information, see PowerDesk help.)

1. Right-click your Windows desktop background, then click **Properties → Settings**.
2. Select the display you want to disable, then clear the **Extend my Windows desktop onto this monitor** check box.
3. Click **OK** or **Apply** for your changes to take effect.

Cause The program window or dialog box may be somewhere off-screen.

Solution If the program window you want to see is named on the Windows taskbar, right-click on it and select **Maximize**. (If you click **Restore** the program window goes back to its previous position. To fix this problem, see the other solutions.)

Solution Manually move the program window or dialog box:

1. Press [Alt]+[Space].
2. If you see a pop-up menu, click **Move**. If you don't see a pop-up menu, press [M] (for **Move**).
3. Press one of the arrow keys once and move your mouse pointer to where you want the window or dialog box to appear, then click. The program window or dialog box should appear where you clicked.

Solution **Windows XP –**

1. Click the PowerDesk icon ( ) on your Windows taskbar to access the PowerDesk main menu. To see the PowerDesk icon in Windows XP, you may need to click the **Show hidden icons** button ( ) on your Windows taskbar.
2. Click **Desktop Management**.
3. Enable one or more of the following features:
   - **Open program windows**
   - **Maximize windows**
   - **Center dialog boxes and message boxes**

4 Choose where you want the program window or dialog box to appear.

For more information, see Matrox PowerDesk help.

Problem Display on digital monitor appears blurry or uses only a portion of the screen

Cause You may be using a lower display resolution than what your digital monitor supports. If your monitor supports display scaling, the image on your screen may appear blurry. If display scaling isn't supported, the display may use only a portion of your screen.

Solution Select the highest display resolution available. This generally results in better image quality.

Product information

Specifications

	Matrox AuroraVX3mp
Key features	Grayscale support · Hardware pivot · Portrait monitor support · Multi-display support in *independent* and *stretched* modes
Graphics chip architecture	Based on Matrox 256-bit GPU
Memory type	DDR (Double Data Rate) SDRAM
Memory	128 MB
Navigation Console	400 MHz
Twin Imaging Displays	165 MHz
Card type	PCIe ×16
Form factor	Low-profile
Connectors	1× KX20
Certifications*	Class A: FCC, CE, CSA, VCCI

* For more information, see page 32.

Supported display resolutions

	Matrox AuroraVX3mp
Navigation Console (analog)	1600 × 1200 (landscape) 1200 × 1600 (portrait)
Twin Imaging Displays (digital)	1600 × 1200 (landscape) 1200 × 1600 (portrait) ***or*** 2048 × 1536 (landscape) 1536 × 2048 (portrait)

Notes

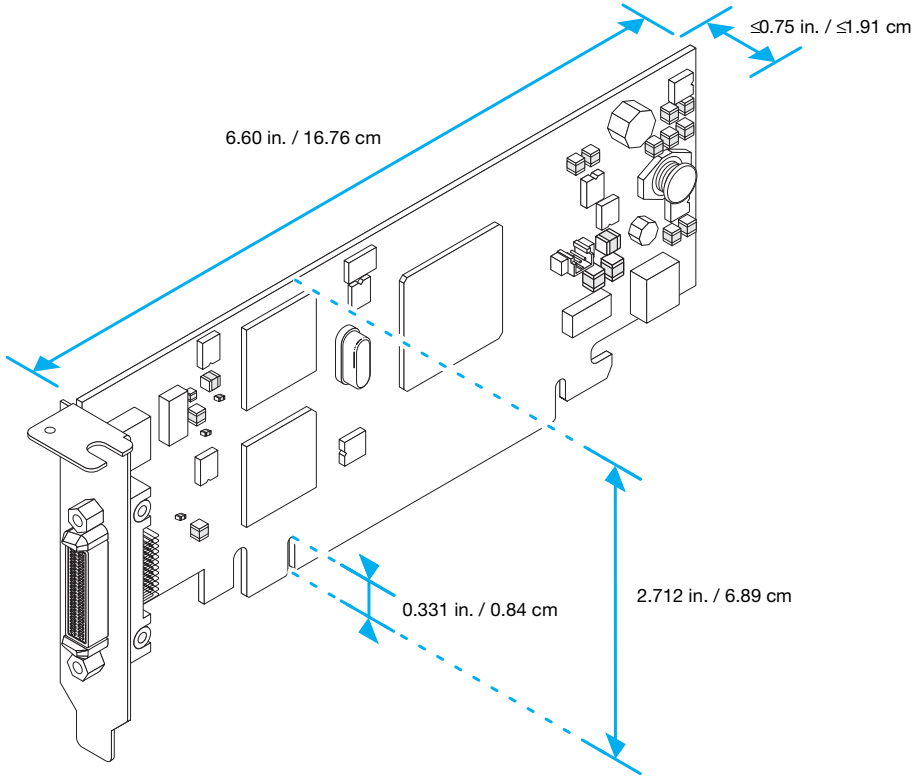
- For a list of supported monitor and partner solutions, see www.matroxmed.com.

- Your Matrox card is 100% VGA compatible and supports all VESA standards: VBE 2.0 (Super VGA modes), DPMS (energy saving), DDC-2B (Plug-and-Play monitor), and DDC-CI.
- The display resolutions and refresh rates available depend on your Matrox graphics card, display driver, software monitor settings, and monitor. For information on the capabilities of your monitor, see your monitor documentation.
- Your primary display must be an analog monitor, and it must be used as your Navigation Console.
- While using Twin Imaging Displays, both displays must be the same type and use the same monitor settings and display orientation.
- While using stretched mode, a mouse pointer drawn by graphics hardware isn't available on Twin Imaging Displays.
- Hardware overlay isn't available on Twin Imaging Displays.
- While using 3 displays at a time ***all*** at the highest display resolution, certain display limitations may apply.

Digital monitor information

- TMDS (Transition Minimized Differential Signaling) encoding
- DDWG (Digital Display Working Group) compliant DVI connector
- EDID (Extended Display Identification Data) 1.2, 1.3 (without the extended data block), and 2.0 support

Maximum card dimensions – Matrox AuroraVX3mp



More information

We provide additional documentation in help files, *Readme* files, and Adobe Acrobat PDF (Portable Document Format) files. To view or print PDF files, use the **Adobe Reader** program.

Customer support

Matrox medical imaging products are available for purchase through Matrox partners. To speak with a Matrox sales representative, call **1-800-786-9836** in North America, or see the Matrox medical imaging Web site for a list of our worldwide sales offices.

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For technical support, contact your dealer. This is the quickest and most effective method of technical assistance. Your dealer is familiar with your complete system. In the case of hardware warranty assistance, the product must be returned to the dealer, who will return it to Matrox.

If your Matrox product was provided by your computer manufacturer, contact this manufacturer. For contact information, see your computer documentation or contact the vendor.

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1. Verify that your Matrox product was installed and configured according to the information in its accompanying documentation.
2. Read the "Troubleshooting" information included with your Matrox product and the documentation provided by your dealer to see if you can solve the problem yourself.
3. If you are still experiencing difficulties, please contact your dealer where you purchased your Matrox product.

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Index

A

Adobe Acrobat 36

B

BIOS 17, 22, 23
Bracket 5, 7

C

Customer support 28–29, 36

D

Display
  Primary 17, 23
  Setup 10–11
DualHead 26

H

Hardware
  Acceleration 25
  Information 13
  Installation 5–6

I

Installation
  Hardware 5–6
  Overview 4
IRQ 22

L

Low-profile bracket 5, 7

M

Monitor
  Connection setup 8–9
  Portrait 11
  Settings 18–20
  Setup 10
Multi-display 10

P

PCI Express 6
PDF 36
Plug-and-Play 10
Portrait monitor
  Setup 11
PowerDesk 10, 11
Product information 13–15

S

Software
  Setup 12

T

Troubleshooting 16–27

V

VGA 16

W

Warning 5, 6, 8, 10, 19, 21
Warranty 28–29

USA

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WARNING Changes or modifications to this unit not expressly approved by the party responsible for the compliance could void the user's authority to operate this equipment. The use of shielded cables for connection of the monitor to the card is required to meet FCC requirements.

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EUROPE

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(Français) Informations aux utilisateurs Européens – Règlementation des déchets d'équipements électriques et électroniques (DEEE)

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(Deutsch) Information für europäische Anwender – Europäische Regelungen zu Elektro- und Elektronikaltgeräten (WEEE)

Bitte wenden Sie Sich an dem Matrox-Website (www.matrox.com/environment/weee) für Recycling Informationen.

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